4-Hydroxythreonine-4-Phosphate Dehydrogenase (pdxA) Rhodopirellula Baltica Recombinant Protein

PRODUCT OVERVIEW

Product Name	4-hydroxythreonine-4-phosphate dehydrogenase (pdxA), Recombinant Protein
Full Product Name	Recombinant Rhodopirellula baltica 4-hydroxythreonine-4-phosphate dehydrogenase (pdxA)
Product Gene Name	pdxA recombinant protein
Product Synonym Gene Name	pdxA
Sequence	MTDANQTRPK LAITMGDAAG IGPEISLRVW DSPEVQSQGY PLLFGDAAIY HRAAKKLGCD CPGTISLAEF LDMPKQSIPS DAPHGVIVDC GKLTTEELGS FTPGKFSAAT GRASYQSVTD AIDAAVSGHV DAIVTGPIQK EAWHQAGIDF PGHTELLADR AGRAVQGEPA DVRMMLASDT IACVLETIHI PLADVASQLN TESLVRTINL AGETVQRRNQ NRGSLLPPRI AVCGLNPHAG ENGLFSHQEE EQIILPAIEA ARQSGWTIEG PLSPDTAFTP AMRERIDIYV CMYHDQGLIP LKALSFDDAV NVTLGLPIIR TSVDHGTAMD LAWQGKASIN SMLAAIRWAV P
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	37,488 Da
Sequence Positions	1-351, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q7UMZ2
Species	Rhodopirellula baltica (strain SH1)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for pdxA recombinant protein	MBS1425753 is a recombinant protein targeting pdxA. Also known as Recombinant Rhodopirellula baltica 4-hydroxythreonine-4-phosphate dehydrogenase (pdxA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of pdxA recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for pdxA. It may not necessarily be applicable to this product.

NCBI GI #	32475086
NCBI GeneID	1796393
NCBI Accession #	NP_868080.1
UniProt Primary Accession #	Q7UMZ2

UniProt Related Accession #	Q7UMZ2
GenBank Nucleotide #	NC_005027.1
NCBI Official Full Name	pyridoxal phosphate biosynthetic protein PdxA
NCBI Official Symbol	pdxA
UniProt Protein Name	4-hydroxythreonine-4-phosphate dehydrogenase
UniProt Synonym Protein Names	4-(phosphohydroxy)-L-threonine dehydrogenase
Protein Family	4-hydroxythreonine-4-phosphate dehydrogenase
UniProt Gene Name	pdxA
NCBI Protein Information	pyridoxal phosphate biosynthetic protein PdxA
UniProt Comments for pdxA	Catalyzes the NAD(P)-dependent oxidation of 4-(phosphohydroxy)-L-threonine (HTP) into 2-amino-3-oxo-4-(phosphohydroxy)butyric acid which spontaneously decarboxylates to form 3-amino-2-oxopropyl phosphate (AHAP).
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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